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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/743,115	12/22/2003	Kazunobu Maruo	28682/38519	8485	
4743	7590 09/27/2006		EXAMINER		
MARSHALL, GERSTEIN & BORUN LLP			RONESI, V	RONESI, VICKEY M	
SEARS TOW	S. WACKER DRIVE, SUITE 6300 ARS TOWER		ART UNIT	PAPER NUMBER	
CHICAGO, IL 60606			1714		
			DATE MAILED: 09/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	A-nlingding Alm	A				
	Application No.	Applicant(s)				
Office Action Summer	10/743,115	MARUO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vickey Ronesi	1714				
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	L. nely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	 s action is non-final.					
· <del>-</del>	· · · · · · · · · · · · · · · · · · ·					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-40</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) $\boxtimes$ Claim(s) <u>1-40</u> are subject to restriction and/or	election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	cepted or b) $\square$ objected to by the $\mathfrak l$	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) ☐ Acknowledgment is made of a claim for foreign</li> <li>a) ☐ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☐ Certified copies of the priority documen</li> </ul>		)-(d) or (f).				
2. Certified copies of the priority documen	ts have been received in Applicati	on No				
<ol><li>Copies of the certified copies of the price</li></ol>	ority documents have been receive	ed in this National Stage				
application from the International Burea	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for a list	t of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) La Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P					
Paper No(s)/Mail Date	6)					

## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-14 and 18-39, drawn to an intercalate, classified in class 252, subclass

378 R.

II. Claims 15-17 and 40, drawn to a nanocomposite, classified in class 524, subclass

445.

The inventions are distinct, each from the other because:

Inventions I and II are related as mutually exclusive species in an intermediate-final

product relationship. Distinctness is proven for claims in this relationship if the intermediate

product is useful to make other than the final product, and the species are patentably distinct

(MPEP § 806.05(j)). In the instant case, the intermediate product is deemed to be useful as an

additive in non-polymeric matrices such as waxes, greases, and lubricants and the inventions are

deemed patentably distinct because there is nothing on this record to show them to be obvious

variants. Furthermore, the intercalate is transformed when used in the nanocomposite because

the intercalate is exfoliated.

Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art as shown by their different classification, restriction for examination

purposes as indicated is proper.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vickey Ronesi whose telephone number is (571) 272-2701. The examiner can normally be reached on Monday - Friday, 8:30 a.m. - 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vickey Ronesi 9/21/2006 a VASU JAGANNATHAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700

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